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Devanbu, P.; Chen, Y.-F.; Gansner, E.; Muller, H.; Martin, J.;
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[Abstract]   [PDF Full-Text (212 KB)]   **IEEE CNF**

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Aerospace and Electronics Conference, 1997. NAECON 1997., Proceedings of t IEEE 1997 National , Volume: 2 , 14-17 July 1997
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Geometric Modeling and Graphics, 2003. Proceedings. 2003 International
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8 Reengineering the Hubble space telescope control center system
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10 VRMosaic: Web access from within a virtual environment
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Computer Graphics and Applications, IEEE , Volume: 16 , Issue: 3 , May 1996
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11 TIN: an interactive image navigator providing ubiquitous access to distributed geo-spatial data
Velez, B.; Cabarcas, A.; Malave, L.;
Information Technology: Coding and Computing, 2004. Proceedings. ITCC 200
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1 Model-driven development of Web applications: the AutoWeb system   ☐
Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available: 📄 pdf(6.94 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

2 CMIFed: a transportable hypermedia authoring system   ☐
Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender
October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available: 📄 pdf(1.93 MB)   Additional Information: full citation, references, citings, index terms

3 Browsers with changing parts: a catalog explorer for Philip Glass' website   ☐
Harry Hochheiser
August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: 📄 pdf(446.89 KB)   Additional Information: full citation, abstract, references, index terms

The development of navigational tools for a web site devoted to a catalog of musical compositions offers a variety of design challenges. A combination of techniques developed from information visualization research - including starfield displays, dynamic queries, and zoomable user interfaces (ZUIs) - was used to construct a prototype browser for possible use in a web site dedicated to the work of Philip Glass. After a discussion of the goals and potential users of the site, this paper descr ...

Keywords: biography, catalog browsing, interactive visualization, music, zoomable user interfaces

4 Interactive information visualization in neuroimaging   ☐
Finn Årup Nielsen, Lars Kai Hansen
November 1997 **Proceedings of the 1997 workshop on New paradigms in information visualization and manipulation**

Keywords: VRML, information visualization, neuroimaging

5 An object-oriented SGML/HyTime compliant multimedia database management system
M. Tamer Özsu, Paul Iglinski, Duane Szafron, Sherine El-Medani, Manuela Junghanns
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

6 Late-breaking results, seeing is understanding: new visualization techniques: Visualizing the crowds at a web site
Nelson Minar, Judith Donath
May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

A visualization of the crowds of people visiting a web site is developed. Visitors are drawn as icons on a map of the web site; the animation of people's movements conveys the crowd dynamics of visitors. The visualization combines three pieces: a map of the web site, an iconic representation of individual visitors, and an interpretation of the dynamics of visitor patterns to show crowd phenomena. The effect is to make a web site look like a social, active space.

Keywords: crowds, dynamic visualization, web visualization

7 Ubiquitous WWW: Implementing physical hyperlinks using ubiquitous identifier resolution
Tim Kindberg
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Identifier resolution is presented as a way to link the physical world with virtual Web resources. In this paradigm, designed to support nomadic users, the user employs a handheld, wirelessly connected, sensor-equipped device to read identifiers associated with physical entities. The identifiers are resolved into virtual resources or actions related to the physical entities - as though the user 'clicked on a physical hyperlink'. We have integrated identifier resolution with the Web so that it ca ...

Keywords: identifier resolution, mobile computing, nomadic computing, physical hyperlinks, ubiquitous computing

8 Integrating the document object model with hyperlinks for enhanced topic distillation and information extraction
Soumen Chakrabarti
April 2001 **Proceedings of the tenth international conference on World Wide Web**

Keywords: document object model, minimum description length principle, segmentation, topic distillation

9 PaperLink: a technique for hyperlinking from real paper to electronic content

Toshifumi Arai, Dietmar Aust, Scott E. Hudson
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.02 MB)   Additional Information: full citation, references, citings, index terms

Keywords: augmented reality, computer vision systems, hybrid paper electronic interfaces, hyperlinking, input devices, pattern recognition

10 Near perfect hash table for image databases
Sanjiv K. Bhatia, Chaman L. Sabharwal
February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(572.57 KB)   Additional Information: full citation, references, index terms

Keywords: 2D string, hash table, image database indexing

11 Links for a better web: Refinement of TF-IDF schemes for web pages using their hyperlinked neighboring pages
Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa, Shunsuke Uemura
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available: pdf(211.25 KB)   Additional Information: full citation, abstract, references, citings, index terms

In IR (information retrieval) systems based on the vector space model, the TF-IDF scheme is widely used to characterize documents. However, in the case of documents with hyperlink structures such as Web pages, it is necessary to develop a technique for representing the contents of Web pages more accurately by exploiting the contents of their hyperlinked neighboring pages. In this paper, we first propose several approaches to refining the TF-IDF scheme for a target Web page by using the contents ...

Keywords: TF-IDF scheme, WWW, hyperlink, information retrieval

12 Multimodal communication: Towards integrated microplanning of language and iconic gesture for multimodal output
Stefan Kopp, Paul Tepper, Justine Cassell
October 2004 **Proceedings of the 6th international conference on Multimodal interfaces**

Full text available: pdf(347.25 KB)   Additional Information: full citation, abstract, references, index terms

When talking about spatial domains, humans frequently accompany their explanations with iconic gestures to depict what they are referring to. For example, when giving directions, it is common to see people making gestures that indicate the shape of buildings, or outline a route to be taken by the listener, and these gestures are essential to the understanding of the directions. Based on results from an ongoing study on language and gesture in direction-giving, we propose a framework to analyz ...

Keywords: embodied conversational agents, generation, gesture, language, multimodal output

13 User interface support for the integration of software tools: an iconic model of interaction
Michel Beaudouin-Lafon
November 1988 **Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 13 , 24 Issue 5 , 2

Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index

This paper presents a model of interaction based on an iconic representation of objects. An application of the model to an iconic shell for Unix™ is described. Finally a client server architecture for the implementation of the model is introduced. We show that a software development environment can take advantage of such a model and architecture in order to provide a consistent, adaptable and extensible user interface.

14 Authoritative sources in a hyperlinked environment

Jon M. Kleinberg
September 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 5

Full text available: pdf(195.41 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The network structure of a hyperlinked environment can be a rich source of information about the content of the environment, provided we have effective means for understanding it. We develop a set of algorithmic tools for extracting information from the link structures of such environments, and report on experiments that demonstrate their effectiveness in a variety of context on the World Wide Web. The central issue we address within our framework is the distillation of broad search topics, ...

Keywords: World Wide Web, graph algorithms, hypertext structure, link analysis

15 Enhanced hypertext categorization using hyperlinks

Soumen Chakrabarti, Byron Dom, Piotr Indyk
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.91 MB)   Additional Information: full citation, abstract, references, citings, index terms

A major challenge in indexing unstructured hypertext databases is to automatically extract meta-data that enables structured search using topic taxonomies, circumvents keyword ambiguity, and improves the quality of search and profile-based routing and filtering. Therefore, an accurate classifier is an essential component of a hypertext database. Hyperlinks pose new problems not addressed in the extensive text classification literature. Links clearly contain high-quality semantic clues that ...

16 ARIS: an interface for application relocation in an interactive space

Jacob T. Biehl, Brian P. Bailey
May 2004 **Proceedings of the 2004 conference on Graphics interface**

Full text available: pdf(528.10 KB)   Additional Information: full citation, abstract, references

By enabling users to better manage information across PDAs, laptops, graphics tablets, and large screens, the use of an interactive space could dramatically improve how users share information in collaborative work. To enable a user to better manage information in an interactive space, we iteratively designed an interactive space window manager called ARIS. We discuss the implementation of ARIS and we share lessons learned from user evaluations about how to design a more effective window manager ...

Keywords: prototyping, ubiquitous computing, window manager

17 IR-5 (information retrieval): information retrieval applications: The liberal media and right-wing conspiracies: using cocitation information to estimate political orientation in web documents

Miles Efron
November 2004 **Proceedings of the Thirteenth ACM conference on Information and knowledge management**

Full text available: pdf(321.47 KB)   Additional Information: full citation, abstract, references, index terms

This paper introduces a simple method for estimating <i>cultural orientation</i>, the affiliation of online entities in a polarized field of discourse. In particular, cocitation information is used to estimate the political orientation of hypertext documents. A type of

cultural orientation, the political orientation of a document is the degree to which it participates in traditionally left- or right-wing beliefs. Estimating documents' political orientation is of interest for personali ...

Keywords: PMI-IR, cocitation, cultural orientation, opinion mining, personalization, politics

18 An orthogonal taxonomy for hyperlink anchor generation in video streams using OvalTine

Jason McC. Smith, David Stotts, Sang-Uok Kum

May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Full text available: pdf(332.93 KB)   Additional Information: full citation, references, citings, index terms

Keywords: automated anchor generation, collaboration, digital video, hypervideo, streaming video

19 Survey articles: Data mining for hypertext: a tutorial survey

Soumen Chakrabarti

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, citings

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces: clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than av ...

20 1a—Links and Navigation: The look of the link - concepts for the user interface of extended hyperlinks

Harald Weinreich, Hartmut Obendorf, Winfried Lamersdorf

September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Full text available: pdf(307.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

The design of hypertext systems has been subject to intense research. Apparently, one topic was mostly neglected: how to visualize and interact with link markers.

This paper presents an overview of pragmatic historical approaches, and discusses problems evolving from sophisticated hypertext linking features. Blending the potential of an XLink-enhanced Web with old ideas and recent GUI techniques, a vision for browser link interfaces of the future is being developed. We hope to stimula ...

Keywords: Web, XLink, distributed hypertext, link marker, user interface

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   PR Newswire. New York: Aug 31, 2000. p. 1
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